



Log No. 180 TAG rev 6/4/21

STATE OF WASHINGTON

## STATE BUILDING CODE COUNCIL

### Washington State Energy Code Development Standard Energy Code Proposal Form

Code being amended: ☒ Commercial Provisions ☐ Residential Provisions

Code Section # C503.6

Brief Description:

Clarify section title, reduce threshold for meeting current LPA from 50% to 20%.

Proposed code change text:

**C503.6 Lighting, ~~((controlled))~~ receptacles and motors.** Alterations or the addition of lighting, ~~((controlled))~~ receptacles and motors shall comply with Sections C503.6.1 through C503.6.6.

**C503.6.1 Luminaire additions and alterations.** Alterations that add or replace ~~((50))~~ 20 percent or more of the luminaires in a space enclosed by walls or ceiling-height partitions, replace ~~((50))~~ 20 percent or more of parking garage luminaires, or replace ~~((50))~~ 20 percent or more of the total installed wattage of exterior luminaires shall comply with Sections C405.4 and C405.5. Exterior power allowance shall be determined using the specific area allowances for the areas altered and shall not include the Base Site Allowance. Where less than ~~((50))~~ 20 percent of the fixtures in an interior space enclosed by walls or ceiling-height partitions or in a parking garage are added or replaced, or less than ~~((50))~~ 20 percent of the installed exterior wattage is replaced, the installed lighting wattage shall be maintained or reduced.

Purpose of code change:

Increase number of projects that upgrade lighting power.

Your amendment must meet one of the following criteria. Select at least one:

- |  |   |
|--|---|
| <input type="checkbox"/> Addresses a critical life/safety need.  | <input type="checkbox"/> Consistency with state or federal regulations. |
| <input type="checkbox"/> The amendment clarifies the intent or application of the code.  | <input type="checkbox"/> Addresses a unique character of the state.     |
| <input checked="" type="checkbox"/> Addresses a specific state policy or statute.<br>(Note that energy conservation is a state policy) | <input checked="" type="checkbox"/> Corrects errors and omissions.      |

Check the building types that would be impacted by your code change:

- |  |   |   |
|--|---|---|
| <input type="checkbox"/> Single family/duplex/townhome | <input type="checkbox"/> Multi-family 4 + stories       | <input checked="" type="checkbox"/> Institutional |
| <input type="checkbox"/> Multi-family 1 – 3 stories    | <input checked="" type="checkbox"/> Commercial / Retail | <input checked="" type="checkbox"/> Industrial    |

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Your organization City of Seattle

June 29, 2021

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## **Economic Impact Data Sheet**

Briefly summarize your proposal's primary economic impacts and benefits to building owners, tenants and businesses.

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Provide your best estimate of the construction cost (or cost savings) of your code change proposal? (See OFM Life Cycle Cost [Analysis tool](#) and [Instructions](#); use these [Inputs](#). **Webinars on the tool can be found [Here](#) and [Here](#)**)

**\$0.75**/square foot

Applies only to those alteration projects that plan on replacing between 20% and 50% of light fixtures in a space.

Show calculations here, and list sources for costs/savings, or attach backup data pages

One fixture per 80 sf, \$100 per fixture = \$1.25/sf x 60% of fixtures added to project = \$0.75.

Provide your best estimate of the annual energy savings (or additional energy use) for your code change proposal?

**0.13 KWH**/ square foot

Show calculations here, and list sources for energy savings estimates, or attach backup data pages

17 watt x 2000 hours = 34 kW/fixture = 0.42 kW/sf x 30% energy savings = \$0.13/sf

List any code enforcement time for additional plan review or inspections that your proposal will require, in hours per permit application: (none)